1

IL-174-00

157702

QUALITY ASSURANCE NOTICE

CC# 5812

Due to magnetic tape failure the library searches for FSCC scans # 1433 and # 1154 are not available.

Susan R. Letzer
Quality Assurance Analyst

RECEIVED OCT 2 5 1983

Case 1887

CASE SUMMARY--CASE #1887

The following Quality Assurance Notices apply to Case #1887:

QUALITY ASSURANCE NOTICE

Semivolatile sample # 5580 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

QUALITY ASSURANCE NOTICE
cc#5801- volatile

Due to background interference in this sample some of the surrogate recoveries are outside the control limits.

Susan K. Seltzer
Quality Assurance Analyst

RECEIVED OCT 2 5 1983

Case 1887

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5501. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- ☐ No DBC recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- ☐ No DBC recovery due to severe matrix interference.
- ☐ Variations between duplicate samples due to non-homogenous nature of soil sample.
- ☑ No DBC recovery due to 1000:1 dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- ☐ Low/high (circle) spike recoveries due to matrix interference.
- ☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials VKS

date 1-27 83

RECEIVED OCT 2 5 1983

Case 1887

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5803. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- ☐ No DBC recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- ☐ No DBC recovery due to severe matrix interference.
- ☐ Variations between duplicate samples due to non-homogenous nature of soil sample.
- ☑ No DBC recovery due to 100:1 dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- ☐ Low/high (circle) spike recoveries due to matrix interference.
- ☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials _____

date 9/27/83

RECEIVED OCT 2 5 1983

QUALITY ASSURANCE NOTICE

Semivolatile sample # 5802 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

Case 1887

QUALITY ASSURANCE NOTICE

Semivolatile sample # 5803 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

QUALITY ASSURANCE NOTICE
CC # 5803

The surrogate recoveries for the volatile portion of this sample are outside the quality control limits. However, due to insufficient sample remaining, re-analysis could not be performed. The original data is therefore reported.

Susan L. Setzer
Quality Assurance Analyst

RECEIVED OCT 2 5 1983

QUALITY ASSURANCE NOTICE
CC # 5803

Due to insufficient sample remaining, the dry weight portion of this sample was not analyzed.

Susan L. Setzer
Quality Assurance Analyst

Case 1887

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5803 . These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- ☐ No DBC recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- ☑ No DBC recovery due to severe matrix interference.
- ☐ Variations between duplicate samples due to non-homogenous nature of soil sample.
- ☐ No DBC recovery due to _____ dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- ☐ Low/high (circle) spike recoveries due to matrix interference.
- ☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials SLS

date 9/27/83

RECEIVED OCT 2 5 1983

Case 1887

QUALITY ASSURANCE NOTICE
CC#5804

Due to insufficient sample remaining, the dry weight portion of this sample was not analyzed.

Susan R. Setzer
Quality Assurance Analyst

QUALITY ASSURANCE NOTICE
CC#5806

Due to insufficient sample remaining, the pesticide portion of this sample was not analyzed.

Susan R. Setzer
Quality Assurance Analyst

QUALITY ASSURANCE NOTICE
CC#5806

RECEIVED OCT 2 5 1983

The surrogate recoveries for the semi-volatile portion of this sample are outside the quality control limits. However, due to insufficient sample remaining, re-analysis could not be performed. The original data is therefore reported.

Case 1887 [illegible] Analyst

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5EC5. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- ☐ No DBC recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- ☐ No DBC recovery due to severe matrix interference.
- ☐ Variations between duplicate samples due to non-homogenous nature of soil sample.
- ☑ No DBC recovery due to 2:1 dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- ☐ Low/high (circle) spike recoveries due to matrix interference.
- ☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials KS

date 9-27-83

RECEIVED OCT 25 1983

Case 1887

QUALITY ASSURANCE NOTICE

Semivolatile sample # 5808 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

QUALITY ASSURANCE NOTICE

Volatile sample # 5808 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5808. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- ☐ No DBC recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- ☑ No DBC recovery due to severe matrix interference.
- ☐ Variations between duplicate samples due to non-homogenous nature of soil sample.
- ☐ No DBC recovery due to _____ dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- ☐ Low/high (circle) spike recoveries due to matrix interference.
- ☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials AJ

date 9/27/83

RECEIVED OCT 25 1983

Case 1887

QUALITY ASSURANCE NOTICE

Semivolatile sample # 5809 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

QUALITY ASSURANCE NOTICE

Volatile sample # 5809 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5869. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- ☐ No DBC recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- ☑ No DBC recovery due to severe matrix interference.
- ☐ Variations between duplicate samples due to non-homogenous nature of soil sample.
- ☐ No DBC recovery due to _____ dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- ☐ Low/high (circle) spike recoveries due to matrix interference.
- ☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials _____

date _____

RECEIVED OCT 2 5 1983

Case 1887

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5512. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- ☐ No DBC recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- ☑ No DBC recovery due to severe matrix interference.
- ☐ Variations between duplicate samples due to non-homogenous nature of soil sample.
- ☐ No DBC recovery due to _____ dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- ☐ Low/high (circle) spike recoveries due to matrix interference.
- ☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials _____

date 9/27/83

RECEIVED OCT 2 5 1983

Case 1887

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # [illegible]. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- ☐ No DBC recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- ☐ No DBC recovery due to severe matrix interference.
- ☐ Variations between duplicate samples due to non-homogenous nature of soil sample.
- ☑ No DBC recovery due to [illegible] dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- ☐ Low/high (circle) spike recoveries due to matrix interference.
- ☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials [illegible]

date [illegible]

RECEIVED OCT 2 5 1983

Case 1887

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5812. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- ☐ No DBC recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to a _____ dilution factor.
- ☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- ☐ No DBC recovery due to severe matrix interference.
- ☐ Variations between duplicate samples due to non-homogenous nature of soil sample.
- ☑ No DBC recovery due to 10:1 dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- ☐ Low/high (circle) spike recoveries due to matrix interference.
- ☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials SS

date 9/27/83

RECEIVED OCT 2 5 1983

Case 1887

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5513 . These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

☐ No DBC recovery available due to a _____ dilution factor.

☐ No spike recovery available due to a _____ dilution factor.

☐ No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.

☐ No DBC recovery due to severe matrix interference.

☐ Variations between duplicate samples due to non-homogenous nature of soil sample.

☑ No DBC recovery due to 10:1 dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).

☐ Low/high (circle) spike recoveries due to matrix interference.

☐ Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials AS

date 9/27/83

RECEIVED OCT 2 5 1983

Case 1887

QUALITY ASSURANCE NOTICE

Semivolatile sample # 5814 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

QUALITY ASSURANCE NOTICE
CASE# 1887

Due to a _____ dilution in the TCDD fraction of this sample, CC# 5814, EPA# E3797, no surrogate recovery data is available.

RECEIVED OCT 2 5 1983

Susan R. Setzer
Quality Assurance Analyst

Case 1887

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5814. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- [x] No DBC recovery available due to a 10,000 dilution factor.
- [ ] No spike recovery available due to a _____ dilution factor.
- [ ] No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- [ ] No DBC recovery due to severe matrix interference.
- [ ] Variations between duplicate samples due to non-homogenous nature of soil sample.
- [ ] No DBC recovery due to _____ dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- [ ] Low/high (circle) spike recoveries due to matrix interference.
- [ ] Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials SS

date 9/27/83

RECEIVED OCT 2 5 1983

QUALITY ASSURANCE NOTICE

Semivolatile sample # 5815 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

QUALITY ASSURANCE NOTICE
CC #5815

Due to insufficient sample remaining, the dry weight portion of this sample was not analyzed.

Susan L. Setzer
Quality Assurance Analyst

RECEIVED OCT 2 5 1983

QUALITY ASSURANCE NOTICE

Volatile sample # 5815 required a substantial dilution in order to accurately detect and quantify compounds present at high levels. Because of this dilution factor, the level of surrogates in this sample fell below the detection limit, and are therefore reported as "BDL."

Bob Whitehead
Quality Assurance Specialist

Can.1097

QUALITY ASSURANCE NOTICE

CC#5815

The following notice regards CompuChem's current policies concerning the evaluation of TCDD data. Any blanks with surrogate recoveries outside control limits will also be affected by these policies.

(1) We are committed to rerun TCDD fractions if the recovery of the 1,2,3,4 TCDD surrogate drops below contract mandated levels.

Soils 11-128% Waters 26-104%

(2) If a TCDD rerun is required on a specific sample, the preparation process will start:
(a) With a split of the base neutral extract if B/N surrogate recoveries are within contract specified limits.
(b) With a re-extraction of the original sample if the B/N surrogates are outside of contract specified levels.
If the TCDD fraction preceeds the SV fraction through the system, a re-prep should be scheduled due to the low probability of a B/N surrogate failure. If the B/N fraction is then later determined to have bad surrogate recoveries, a full re-extraction can then be performed.

(3) If a TCDD blank has bad recoveries, the following rules will apply:
(a) All samples associated with the blank will be run, surrogate recoveries determined and the amount of native TCDD, if any, calculated.
(b) If the sample has surrogate recovery within contract specifications and does not have any native material present, it will be reported out with the appropriate QC notice.
(c) If, however, either surrogate recovery is out of the acceptable range or native TCDD is identified, the sample must be reprocessed based on the rules identified in point 2.

(4) If native TCDD is found in the blank the entire batch must be reextracted.

(5) Based on the rules defined in Point 2, if a group of samples are going to be reprepared from the base/neutral fraction, a new blank will be required. A CompuChem number for this blank can be obtained by using the the number 180 QC counter on the HP3000 system; a 1:20 insertion rate is required. This blank should start with 250 microliters of methylene chloride and follow all of the reprep steps.

(6) If the second TCDD also fails to produce acceptable results we will invoice the EPA for the re-analysis of a full pesticide/TCDD fraction.

RECEIVED OCT 2 5 1983

Paul Mills
Director, Quality Assurance

Cam.1007

QUALITY ASSURANCE NOTICE

The statements checked below apply to the pesticide fraction of sample # 5515. These statements apply to problems incurred with the quantitation of the surrogate, dibutyl chlorendate, or the spike compounds (QC samples only) flagged by an asterisk (*) on the compound list.

- [x] No DBC recovery available due to a 1/10 dilution factor.
- [ ] No spike recovery available due to a _____ dilution factor.
- [ ] No spike recovery available due to severe matrix interference and/or the presence of high levels of PCBs which prevent quantitation of these compounds.
- [ ] No DBC recovery due to severe matrix interference.
- [ ] Variations between duplicate samples due to non-homogenous nature of soil sample.
- [ ] No DBC recovery due to _____ dilution factor on packed/capillary (circle) and matrix interference on packed/capillary columns (circle).
- [ ] Low/high (circle) spike recoveries due to matrix interference.
- [ ] Additional Analyst/Quality Assurance Specialist comments:

_____

_____

_____

initials _____

date 9-27-83

RECEIVED OCT 2 5 1983

Case 1287

QUALITY CONTROL NOTICE

Because of the high levels of PCB's in sample #5826 & 5827, there is no pesticide spike data available for reporting. The presence of the PCB's effectively masked that of the spike compounds, preventing accurate quantitation. Duplicate data are available which confirm these results.

Bob Whitehead 8-23-83
Quality Control Specialist

QUALITY CONTROL NOTICE

Semivolatile sample spike #5824 and duplicate sample spike #5825, from the original sample #5802, required extensive dilutions in order to accurately detect and quantify all compounds present. Because this dilution factor decreased the surrogates and spikes to levels below the detection limit, these compounds are not reported.

The acid fractions were diluted by a 20:1 factor, while the base/neutrals were diluted 20:1.

Bob Whitehead
Quality Control Specialist
Date: 8-23-83

RECEIVED OCT 25 1983

Case 1027

QUALITY ASSURANCE NOTICE

The semivolatile fraction of sample spike # 5613 and duplicate spike # 5614 exhibited unusual percent recovery values for the compound(s) listed below. These values are outside of control limits due to the non-homogenous nature of the soil sample used in preparing these spikes. This original sample (# 5607) contained the compound(s) listed below in the "non-spiked" analysis.

compound

phenol

pentachlorophenol

Bob Whitehead 9 20 83
Quality Assurance Specialist

C# 1887

QUALITY ASSURANCE NOTICE

The semivolatile fraction of sample spike # 5824 and duplicate spike # 5825 exhibited unusual percent recovery values for the compound(s) listed below. These values are outside of control limits due to the non-homogenous nature of the soil sample used in preparing these spikes. This original sample (# 5802) contained the compound(s) listed below in the "non-spiked" analysis.

compound

1,2,4-trichlorobenzene

RECEIVED OCT 2 5 1983

Bob Whitehead 9-25-83
Quality Assurance Specialist

Can. 1887

President

3308 East Chapel Hill/Nelson Highway
Post Office Box 12652
Research Triangle Park, NC 27709

Telephone: 919-549-8263
800-334-8525

Mead CompuChem

July 8, 1983

Dr. Alfred Haeberer
USEPA
Support Services Branch (WH-548-A)
Hazardous Response Support Division
401 M Street, S.W.
Washington, D.C. 20460

Dear Fred:

The new protocols for semi-volatile analysis are currently not amenable to running samples on a routine basis (IFB WA 83 A094, Contract 68-01-6762). In order to prevent buildup of delinquent samples, I have decided to revert to the calibration protocols of the previous contract on a 3-week interim basis (IFB WA 82 A155, Contract 68-01-6727). The changed surrogate and deliverable items of the new protocols will be followed. I will provide you detailed technical information documenting all problems with the new protocols within the next 10 days.

I believe this change is in the best interest of the program. However, if this is unacceptable to you, please call immediately.

Sincerely,

R. Lee Myers, Ph.D.

RLM:eh

cc: S. Kovell
Dick Thacker - SMD
Gareth Pearson - EMSL

RECEIVED OCT 2 5 1983

Case 1087

QUALITY ASSURANCE NOTICE: EPA CASE#.

In addition to the difficulties experienced in the analysis of semivolatile calibration standards referenced in the attached memorandum from Dr. R. L. Myers at CompuChem to Dr. A. Haeberer, USEPA, 7/8/83, similar problems have been seen in the initial volatile calibration analyses. The Laboratory is, consistent with the semivolatiles, reverting to the calibration protocols of the previous contract for volatiles, until the criteria problems can be overcome or the criteria themselves are changed for this contract.

Paul Nay

Director, Quality Assurance July 22, 1983

The semivolatile calibration standards criteria being applied by CompuChem for Calibration Check Compounds is that the shift check standard must have for those compounds a response factor which is within the 20% difference criterion compared to the multipoint calibration standard of the same level. Again, the old protocol criteria is being applied, in which the average of the response factor differences are summed, so some individual standards response factor may be outside the 20% criteria, but the average of all may be less than 20%; this would be acceptable, and then samples would be run.

Paul Nay

Director, Quality Assurance July 22, 1983

Case, 1027

E/E

SOIL SURROGATE PERCENT RECOVERY SUMMARY

CASE NO. 1287
LOW LEVEL XX
WATER
QC REPORT NO.

CONTRACTOR Mead CompuChem
MED. LEVEL
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)

RECEIVED OCT 2 5 1983

Case 1287

							[Volatile]			[Semi-Volatile]							[Pesticide]	[Dioxin]
SURR. I.D.	EXT. DATE	EXT. I.D.	DATE ANA.	ANAL. I.D.	CC #	SMO Traffic No.	(#233) D_8 Toluene (81-120)	(#247) BFB (NE)	(#258) D_4-1,2 Dichloro Ethane (NE)	(#447) D_5 Nitro Benzene (19-120)	(#448) 2-Fluoro Biphenyl (17-120)	(#471) D_{10} Pyrene (NE)	(#496) D_{14} p-ter Phenyl (NE)	(#612) D_5 Phenol (10-100)	(#619) 2-Fluoro Phenol (26-120)	(#628) 2,4,6-Tribromo Phenol (NE)	(#738) Dibutyl Chlorendate (NE)	(#466) 1,2,3,4 TCDD (11-130)
383	7-16 83		7-22-83	633	5800	E3783	113	105	88									
382	7-26 83		8-13-83	763						90	92	120	74	73	85	34		
368	7-26 83		8-8-83	694													57	
364	7-29 83		8-8-83	719														16
383					5801	E3784	①125	110	95									
382	7-26 83		8-13-83	763						20:1	Dilution	Surr	BDL					
368	7-26 83		8-11-83	694													⊗ No rec.	
364	8-17 83		8-16-83	740														32
					5802	E3785	Screened Medium											
382	7-26 83		8-11-83	586						100:1	Dilution	- no surr	all BDL	①				
368	7-26 83		8-11-83	547													**	
364			8-23	755														IND*
					5803	E3786	①74	72	73									
382	5-26 83		8-14-83	586						Dilution		—						
368	8-26 83		8-11-83	547													**	
364	7-27 83		8-8-83	719														15
383	7-26 83		8-29-83	673	5804	E3787	95	87	88									
382	8-19 83		8-25-83	659						52	62	62	58	86	110	56		
368	7-26 83		8-11-83	597													41	
364																		IND*

Volatiles: 1 out of 3; outside of QC limits
Semivolatiles: 0 out of 8; outside of QC limits
Dioxin: 2 out of 5; outside of QC limits

*Asterisked values are outside of QC limits.
NE - Not established.

Comments:
⊗=Dilution, ① QA Notice, ** No DBC Recovery due to PCB interference

SOIL SURROGATE PERCENT RECOVERY SUMMARY

CASE NO. 1987
LOW LEVEL ✓✓
WATER
QC REPORT NO.

CONTRACTOR Mead CompuChem
MED. LEVEL
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)

RECEIVED OCT 2 5 1983

							[---------Volatile---------]			[----------Semi-Volatile----------]						[Pesticide]	[Dioxin]
SURR. I.D.	EXT. DATE	EXT. I.D.	DATE ANA.	ANAL. I.D.	CC #	SMO Traffic No.	(#233) D_8 Toluene (81-120)	(#247) BFB (NE)	(#258) D_4-1,2 Dichloro Ethane (NE)	(#447) D_5 Nitro Benzene (19-120)	(#448) 2-Fluoro Biphenyl (17-120)	(#471) D_{10} Pyrene (NE)	(#496) D_{14} p-Ter Phenyl (NE)	(#612) D_5 Phenol (10-100)	(#619) 2-Fluoro Phenol (26-120)	(#628) 2,4,6-Tribromo Phenol (NE)	(#738) Dibutyl Chlorendate (NE)	(#466) 1,2,3,4 TCDD (11-130)
383	7-26 B3		7-28 B3	714	5805	E3788	120	110	93									
382	7-29		8-11	763						66	73	120	54	81	100	66		
368																	*D	
364	7-27 B3		8-8-83	714														16
383					5806	E3789	81	90	72									
382	7-29 83		8-11 83	602						93	130 ⑧	110	150	30	42	27		
368																		
364	7-29 B3		8-8 83	740														IND*
383	7-26 B3		7-29-83	714 633	5807	E3700	92	96	75									
382	7-27 B3		8-19 B3	659						76	76	68	99	67	61	150②		
368	7-28 B3		8-22-83	644 597													61	
364	7-29 B3		8-11-83	740														26
383					5808	E3791	Screened Medium											
382	7-26 B3		8-11-83	763						All - BDL ① - Dilution								
368																	*INT	
364	8-17 B3		8-17-83	755														17
383					5809	E3792	Screened Medium											
382	8-16 B3		8-23-83	616 586	5804R					ALL BDL - DILUTION FACTOR								
366	7-26 B3		8-30-83	547													BDL	
364	/ /		8-4-83	719	5809													IND*

Volatiles: 0 out of 3 ; outside of QC limits
Semivolatiles: 8 out of 12 ; outside of QC limits
Dioxin: 2 out of 5 ; outside of QC limits

*Asterisked values are outside of QC limits.
NE - Not established.

Comments:
⑧: Dilution, ①: QA Notice, 2: see reinject fraction
* 5806 - NOT ENOUGH SAMPLE LEFT FOR TCDD RE-EXTRACT + ANALYSIS

* 5808 - Interference
* 5805 - No recovery due to dilution
⑧ no sample remaining for re-extraction

Case: 1987

SOIL SURROGATE PERCENT RECOVERY SUMMARY

CASE NO. 1887
LOW LEVEL ✓
WATER
QC REPORT NO.

CONTRACTOR Mead CompuChem
MED. LEVEL
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)

RECEIVED OCT 25 1983

							[Volatile]			[Semi-Volatile]							[Pesticide]	[Dioxin]
SURR. I.D.	EXT. DATE	EXT. I.D.	DATE ANA.	ANAL. I.D.	CC #	SMO Traffic No.	(#233) D_8 Toluene (81-120)	(#247) BFB (NE)	(#258) D_4-1,2 Dichloro Ethane (NE)	(#447) D_5 Nitro Benzene (19-120)	(#448) 2-Fluoro Biphenyl (17-120)	(#471) D_{10} Pyrene (NE)	(#496) D_{14} p-Ter Phenyl (NE)	(#612) D_5 Phenol (10-100)	(#619) 2-Fluoro Phenol (26-120)	(#628) 2,4,6-Tribromo Phenol (NE)	(#738) Dibutyl Chlorendate (NE)	(#466) 1,2,3,4 TCDD (11-130)
383					5810	E3793	Screened Medium											
382	8-9 83		8-25-83	617	5810 R					93	100	100	110	70	120	89		
368	7-28 83		8-30-83	597													BDL	
364	7-27 83		8-9-83	714														18
383					5811	E3794	Screened Medium											
382	7-26 83		8-11-83	602						89	100	87	81	32	32	23		
368	7-28 83		8-23-83	694 597													⊗①	
364	7-27 83		8-9-83	740														No rec.
383	7-27 83		7-28-83	633	5812	E3795	108	103	92									
382	7-26 83		8-11-83	602						92	91	66	98	63	69	50		
368	7-28 83		8-22-83	691													⊗①	
364	7-27 83		8-9-83	740														23
383	7-26 83		7-28-83	633	5813	E3796	107	108	90									
382	5-26 83		8-12-83	763 659						83	94	120	70	86	110	99		
368	7-26 83		8-9-83	597													BDL	
364	7-27 83		8-9-83	740														14
383					5814	E3797	Screened Medium											
382	5-26 83		8-23-83	659						4	Dilution							
368	7-26 83		9-7-83	547 679													⊗⊗	
364	8-29 83		9-25-83	763	5814 RE													IND*

Volatiles: 0 out of 2 ; outside of QC limits
Semivolatiles: 0 out of 16 ; outside of QC limits
Dioxin: 2 out of 5 ; outside of QC limits

*Asterisked values are outside of QC limits.
NE - Not established.

Comments:
⊗ Dilution, ① QA Notice, ② see reinject fraction

SOIL SURROGATE PERCENT RECOVERY SUMMARY

CASE NO. 1887
LOW LEVEL ~~
WATER
QC REPORT NO.

CONTRACTOR Mead CompuChem
MED. LEVEL
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)

RECEIVED OCT 25 1983

							Volatile			Semi-Volatile							Pesticide	Dioxin
SURR. I.D.	EXT. DATE	EXT. I.D.	DATE ANA.	ANAL. I.D.	CC #	SMO Traffic No.	(#233) D_8 Toluene (81-120)	(#247) BFB (NE)	(#258) D_4-1,2 Dichloro Ethane (NE)	(#447) D_5 Nitro Benzene (19-120)	(#448) 2-Fluoro Biphenyl (17-120)	(#471) D_{10} Pyrene (NE)	(#496) D_{14} p-Ter Phenyl (NE)	(#612) D_5 Phenol (10-100)	(#619) 2-Fluoro Phenol (26-120)	(#628) 2,4,6-Tribromo Phenol (NE)	(#738) Dibutyl Chlor-endate (NE)	(#466) 1,2,3,4 TCDD (11-130)
383					5815	E3798	Screened Medium											
382	5-26 83		8-12-83	763						*	BDL ①							
368																	* ②	
364	1.27		[illegible]83	740														BDL*
383																		
382																		
368																		
364																		
383																		
382																		
368																		
364																		
383																		
382																		
368																		
364																		
383																		
382																		
368																		
364																		

Volatiles: ___ out of ___; outside of QC limits
Semivolatiles: 4 out of 4; outside of QC limits
Dioxin: 1 out of 1; outside of QC limits

*Asterisked values are outside of QC limits.
NE - Not established.

Comments:
① QA Notice
*② 1:10000 Dilution

E/16

SOIL SURROGATE PERCENT RECOVERY SUMMARY

CASE NO. 1EE7
LOW LEVEL
WATER
QC REPORT NO.

CONTRACTOR Mid Continent Chem
MED. LEVEL XX
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)

RECEIVED OCT 2 5 1983

VOA only - medium

							[Volatile]			[Semi-Volatile]							[Pesticide]	[Dioxin]
SURR. I.D.	EXT. DATE	EXT. I.D.	DATE ANA.	ANAL. I.D.	CC #	SMO Traffic No.	(#233) D_8 Toluene (81-120)	(#247) BFB (NE)	(#258) D_4-1,2 Dichloro Ethane (NE)	(#447) D_5 Nitro Benzene (19-120)	(#448) 2-Fluoro Biphenyl (17-120)	(#471) D_{10} Pyrene (NE)	(#496) D_{14} p-Ter Phenyl (NE)	(#612) D_5 Phenol (10-100)	(#619) 2-Fluoro Phenol (26-120)	(#628) 2,4,6-Tribromo Phenol (NE)	(#738) Dibutyl Chlorendate (NE)	(#466) 1,2,3,4 TCDD (11-130)
383	7-28		8-2-83	673	5802	E3785	71*	74	76									
383	7-28 83		8-3-83	714 633	5808	E3791	See QA BDL	Notice BDL	BDL									
383	7-28 83		8-3-83	633	5809	E3792	See QA BDL	Notice BDL	BDL									
383	7-28 83		7-28-83	633	5810	E3793	92	96	75									

Volatiles: 3 out of 1, outside of QC limits
Semivolatiles: ____ out of ____; outside of QC limits
Dioxin: ____ out of ____; outside of QC limits

*Asterisked values are outside of QC limits.
NE - Not established.

Comments:

Can. 1987

SOIL SURROGATE PERCENT RECOVERY SUMMARY

CASE NO. 1887
LOW LEVEL
WATER
QC REPORT NO.

CONTRACTOR Mead CompuChem
MED. LEVEL XX
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)

RECEIVED OCT 2 5 1983

VOA Only - Medium

							[Volatile]			[Semi-Volatile]							[Pesticide]	[Dioxin]
SURR. I.D.	EXT. DATE	EXT. I.D.	DATE ANA.	ANAL. I.D.	CC #	SMO Traffic No.	(#233) D_8 Toluene (81-120)	(#247) BFB (NE)	(#258) D_4-1,2 Dichloro Ethane (NE)	(#447) D_5 Nitro Benzene (19-120)	(#448) 2-Fluoro Biphenyl (17-120)	(#471) D_{10} Pyrene (NE)	(#496) D_{14} p-Ter Phenyl (NE)	(#612) D_5 Phenol (10-100)	(#619) 2-Fluoro Phenol (26-120)	(#628) 2,4,6-Tribromo Phenol (NE)	(#738) Dibutyl Chlorendate (NE)	(#466) 1,2,3,4 TCDD (11-130)
383	7-28 83		8-2-83	673	5811	E3794	84	87	84									
383	7-28 83		8-2-83	673	5814	E3797	95	100	77									
383	7-28 83		8-3-83	633	5815	E3798	See BDL	VOA Notice BDL	BDL									

Volatiles: 1 out of 3; outside of QC limits
Semivolatiles: ____ out of ____; outside of QC limits
Dioxin: ____ out of ____; outside of QC limits

*Asterisked values are outside of QC limits.
NE - Not established.

Comments:

Case 1887

SOIL SURROGATE PERCENT RECOVERY SUMMARY

CASE NO. 1887
LOW LEVEL ✓
WATER
QC REPORT NO.

CONTRACTOR Rapid CompuChem
MED. LEVEL
SOIL/SED. ✓

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)

RECEIVED OCT 2 5 1983

Re Run Samples

							[---------Volatile---------]			[----------Semi-Volatile----------]							[Pesticide]	[Dioxin]
SURR. I.D.	EXT. DATE	EXT. I.D.	DATE ANA.	ANAL. I.D.	CC #	SMO Traffic No.	(#233) D_8 Toluene (81-120)	(#247) BFB (NE)	(#258) D_4-1,2 Dichloro Ethane (NE)	(#447) D_5 Nitro Benzene (19-120)	(#448) 2-Fluoro Biphenyl (17-120)	(#471) D_{10} Pyrene (NE)	(#496) D_{14} p-Ter Phenyl (NE)	(#612) D_5 Phenol (10-100)	(#619) 2-Fluoro Phenol (26-120)	(#628) 2,4,6-Tribromo Phenol (NE)	(#738) Dibutyl Chlor-endate (NE)	(#466) 1,2,3,4 TCDD (11-130)
383	7-28-83		8-2-83	673	5802R	E3785	*76	75	75									

Case 1887

Volatiles: 1 out of 1; outside of QC limits
Semivolatiles: ____ out of ____; outside of QC limits
Dioxin: ____ out of ____; outside of QC limits

*Asterisked values are outside of QC limits.
NE - Not established.

Comments:

SOIL SURROGATE PERCENT RECOVERY SUMMARY

CASE NO. 1887
LOW LEVEL XX
WATER
QC REPORT NO.

CONTRACTOR MEAD
MED. LEVEL
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)

RECEIVED OCT 25 1983

RERUNS

SURR. I.D.	EXT. DATE	EXT. I.D.	DATE ANA.	ANAL. I.D.	CC #	SMO Traffic No.	Volatile: (#233) D_8 Toluene (81-120)	Volatile: (#247) BFB (NE)	Volatile: (#258) D_4-1,2 Dichloro Ethane (NE)	Semi-Volatile: (#447) D_5 Nitro Benzene (19-120)	Semi-Volatile: (#448) 2-Fluoro Biphenyl (17-120)	Semi-Volatile: (#471) D_{10} Pyrene (NE)	Semi-Volatile: (#496) D_{14} p-Ter Phenyl (NE)	Semi-Volatile: (#612) D_5 Phenol (10-100)	Semi-Volatile: (#619) 2-Fluoro Phenol (26-120)	Semi-Volatile: (#628) 2,4,6-Tribromo Phenol (NE)	Pesticide: (#738) Dibutyl Chlorendate (NE)	Dioxin: (#466) 1,2,3,4 TCDD (11-130)
					[illegible]	E3785												
364	8-23		[illegible]	[illegible]														IND*
					5804R	[illegible]												
[illegible]	[illegible]		[illegible]	[illegible]														[illegible]*
					5809R	E3792												
364	8-15		8-18	719														* ①
					5815R	E3798												
364			9-9	740														*IND ①
					5811R	E3794												
364			8-11															ind ①

Volatiles: ____ out of ____; outside of QC limits
Semivolatiles: ____ out of ____; outside of QC limits
Dioxin: 4 out of 4; outside of QC limits

*Asterisked values are outside of QC limits.
NE - Not established.

Comments:
① QA NOTICE

Case 1887

Instrument Blanks

VOLATILES
REAGENT BLANK SUMMARY

Page __ of __

CASE NO. 1887 | CONTRACTOR Compuchem | CONTRACT NO. | RECEIVED OCT 2 5 1983
LOW LEVEL | MED. LEVEL | HIGH LEVEL
WATER | SOIL/SED. | OTHER (Specify)
QC REPORT NO. | | UNITS (Circle) ug/kg ug/l

FRACTION	CAS# NUMBER	COMPOUND	CONCENTRATION	CONTRACT DETECTION LIMITS	COMMENTS	ASSOCIATED SMO #		SAMPLES CC #
VOLATILES:								
File I.D. GB830727C05		NONE				E3783		5800
Instrument I.D.						E3784		5801
GB830728A05		NONE				E3795		5812
						E3796		5813
VOLATILES:								
File I.D. GE830728C05		NONE				E3788	5805	5816
Instrument I.D.						E3702	5807	
CB830802A11		NONE				E3785	5802	5806 E3789
						E3786	5803	5811 E3794
						E3793		
VOLATILES:								
File I.D. CB830802B11		NONE				E3789	5806	5814 E3797
Instrument I.D.						E3791	5808	
CC830803C11		NONE				E3791	5808	5815 E3798
						E3792	5809	
VOLATILES:								
File I.D. CB830829A11		NONE				E3787	5804	
Instrument I.D.								

LOG 1805

VOLATILES

REAGENT BLANK SUMMARY

CASE NO. 1887 | CONTRACTOR MeAd | CONTRACT NO. 68-01-6762

LOW LEVEL | MED. LEVEL XX | HIGH LEVEL

WATER | SOIL/SED. XX | OTHER (Specify)

QC REPORT NO. | UNITS (Circle) ug/kg ug/l

RECEIVED OCT 2 5 1983

FRACTION	CAS# NUMBER	COMPOUND	CONCENTRATION	CONTRACT DETECTION LIMITS	COMMENTS	ASSOCIATED SMO #		SAMPLES CC #
VOLATILES:						E3786		5807C
File I.D. 6794								
Instrument I.D.								
VOLATILES:								
File I.D. 6034		NONE				E3785		5802, 5806
Instrument I.D.						E3789		5808-09
						E3791	E3797	5811, 5814-15
						E3792	E398	
						E3794		
VOLATILES:								
File I.D.								
Instrument I.D.								
VOLATILES:								
File I.D.								
Instrument I.D.								

Case, 1887

VOLATILES
REAGENT BLANK SUMMARY

Page __ of __

CASE NO. 1887
LOW LEVEL XX
WATER
QC REPORT NO.

CONTRACTOR Mead
MED. LEVEL
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)
UNITS (Circle) ug/kg ug/l

RECEIVED OCT 2 5 1983

FRACTION	CASE NUMBER	COMPOUND	CONCENTRATION	CONTRACT DETECTION LIMITS	COMMENTS	ASSOCIATED SAMPLES SMO #	CC #
VOLATILES:						E3783	
File I.D. 6104	75-09-2	Methylene Chloride	1.8	2.5		E3784	5800-01,
Instrument I.D.						E3787	5804-05,
						E3788	5807, 5813
						E3790	5810, 5812
						E3793	E3796
VOLATILES:						E3795	
File I.D.							
Instrument I.D.							
VOLATILES:							
File I.D.							
Instrument I.D.							
VOLATILES:							
File I.D.							
Instrument I.D.							

Case, 1987

SEMI-VOLATILE

REAGENT BLANK SUMMARY

CASE NO. 1997 | CONTRACTOR MEAN | CONTRACT NO. 68-01-6762
LOW LEVEL XX | MED. LEVEL | HIGH LEVEL
WATER | SOIL/SED. XX | OTHER (Specify)
QC REPORT NO. | | UNITS (Circle) ug/kg ug/l

RECEIVED OCT 2 5 1983

FRACTION	CAS# NUMBER	COMPOUND	CONCENTRATION	CONTRACT DETECTION LIMITS	COMMENTS	ASSOCIATED SMO #		SAMPLES CC #
SEMI-VOLATILES:						E3783		5800-06
File I.D. 6025	SCAN @		330		<80% purity	E3784		5813-15
	2000					E3785	E3788	
Instrument I.D.						E3786	E3789	
						E3787		
SEMI-VOLATILES:								
File I.D. 6204	108-88-3	Benzene, Methyl	300.0		94.1% purity	E3790		5807
Instrument I.D.								

Case 1997

SEMI-VOLATILE

REAGENT BLANK SUMMARY

CASE NO. 1887
LOW LEVEL XX
WATER
QC REPORT NO.

CONTRACTOR COMPUCHEM
MED. LEVEL
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)
UNITS (Circle) (ug/kg) ug/l

FRACTION	CAS# NUMBER	COMPOUND	CONCENTRATION	CONTRACT DETECTION LIMITS	COMMENTS	ASSOCIATED SMO #		SAMPLES CC #
SEMI-VOLATILES:						E3791		
File I.D. 6078	108-11-2	2-PENTANOL 4-METHYL-			PURITY 82%.	E3792		5808-5812
						E3793		
Instrument I.D.						E3794		
						E3795		
SEMI-VOLATILES:								
File I.D. 6835R		NONE					E3787	5804
Instrument I.D.							E3789	5806

Case 1887

PESTICIDE

REAGENT BLANK SUMMARY

Page __ of __

RECEIVED OCT 2 5 1985

CASE NO. 1887 | CONTRACTOR MEAD | CONTRACT NO. 68-01-6762

LOW LEVEL XX | MED. LEVEL | HIGH LEVEL

WATER | SOIL/SED. XX | OTHER (Specify)

QC REPORT NO. | UNITS (Circle) ug/kg ug/l

FRACTION	CAS# NUMBER	COMPOUND	CONCEN-TRATION	CONTRACT DETECTION LIMITS	COMMENTS	ASSOCIATED SMO #		SAMPLES CC #	
PESTICIDES:						E3783	E3789		
File I.D. 6025		NONE			60% RECOVERY	E3784	E3796	5800	5806
Instrument I.D.						~~E3785~~ E3786	E3797 E3798	5813	5815
						E3787 ~~E3788~~			
PESTICIDES:									
File I.D. 6204		NONE				E3790			5807
Instrument I.D.									
PESTICIDES:									
File I.D. 6204		NONE			22% Recovery	E3791	E3794	5808	5812
Instrument I.D.						E3792	E3795		
						E3793			
PESTICIDES:									
File I.D.									
Instrument I.D.									

Case 1887

TCDD

REAGENT BLANK SUMMARY

CASE NO. 1887
LOW LEVEL XX
WATER XX
QC REPORT NO. ______

CONTRACTOR Mead
MED. LEVEL ______
SOIL/SED. ______

CONTRACT NO. 68-01-6762
HIGH LEVEL ______
OTHER (Specify) ______
UNITS (Circle) (ug/kg) ug/l

RECEIVED OCT 25 1983

FRACTION	CAS# NUMBER	COMPOUND	CONCENTRATION	CONTRACT DETECTION LIMITS	COMMENTS	ASSOCIATED SAMPLES SMO #	ASSOCIATED SAMPLES CC #
TCDD :						E3783	5800-06
File I.D. 6025		NONE			78% recovery	E3784	5813-15
Instrument I.D.						E3785	E3789
						E3786	E3796
						E3787	E3797
						E3788	E3798
TCDD :						E3791	5808-5812
File I.D.						E3792	
Instrument I.D.						E3793	
						E3794	
						E3795	
TCDD :							
File I.D. 6204		NONE			14% Rec.	E3790	5807
Instrument I.D.							
TCDD :							
File I.D. 6078		NONE			6% Rec.	E3797	5814-5815
Instrument I.D.						E3798	

Case 1887

MATRIX SPIKE DUPLICATE/RECOVERY

CASE NO. 1887
LOW LEVEL
WATER
QC REPORT NO.

CONTRACTOR MEAD COMPUCHEM
MED. LEVEL XX
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)
UNITS (Circle) ug/g ug/l

RECEIVED OCT 25 1983

FRACTION	COMPOUND	SMO # CONC	CONC. SPIKE ADDED	CONC. MS	% REC.	CONC. MSD	% REC.	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY	COMMENTS
VOA 5811 SMO # E3794	1,1-Dichloroethylene	ND	25	21	84	21	84	0	<15%	51-150	5802-03, 5806, 5808-07, 5811, 5814-15 5810 SMO # 3794
	Trichloroethylene	ND	25	21	84	21	84	0	<15%	74-130	
	Chlorobenzene	ND	25	22	88	22	88	0	<15%	67-130	
6063 MS #E3794 6064 MSD #E3794	Toluene	4.8	25	22	88	22	88	0	<15%	58-130	
	Benzene	ND	25	20	80	20	80	0	<15%	56-130	
B/N SMO #	1,2,4-Trichlorobenzene								<50%	38-110	
	Acenaphthene								<50%	57-120	
	2,4-Dinitrotoluene								<50%	43-110	
MS # ___ MSD # ___	Di-N-Butylphthalate								<50%	13-110	
	Pyrene								<50%	25-140	
	N-Nitrosodi-N-Propylamine								<50%	34-110	
	1,4-Dichlorobenzene								<50%	33-110	
ACID SMO #	Pentachlorophenol								<40%	19-120	
	Phenol								<40%	23-80	
	2-Chlorophenol								<40%	33-110	
MS # ___ MSD # ___	P-Chloro-M-Cresol								<40%	32-110	
	4-Nitrophenol								<40%	15-90	
PEST SMO #	Lindane								<40%	87-110	
	Heptachlor								<40%	43-120	
	Aldrin								<40%	45-110	
MS # ___ MSD # ___	Dieldrin								<40%	56-120	
	Endrin								<40%	89-110	
	p,p-DDT								<40%	82-100	

*Asterisked values are outside QC limits.

RPD: VOAs 0 out of 5; outside QC limits
B/N ___ out of ___; outside QC limits
ACID ___ out of ___; outside QC limits
PEST ___ out of ___; outside QC limits

RECOVERY: VOAs 0 out of 5; outside QC limits
B/N ___ out of ___; outside QC limits
ACID ___ out of ___; outside QC limits
PEST ___ out of ___; outside QC limits

*Date Limits Set 12/82
Revision Due 6/83

Case 1887

MATRIX SPIKE DUPLICATE/RECOVERY

CASE NO. 1887
LOW LEVEL XX
WATER
QC REPORT NO.

CONTRACTOR MEAD COMPUCHEM
MED. LEVEL
SOIL/SED. XX

CONTRACT NO. 68-01-6702
HIGH LEVEL
OTHER (Specify)
UNITS (Circle) (ug/kg) ug/l

RECEIVED OCT 2 5 1983

FRACTION	COMPOUND	SMO # CONC	CONC. SPIKE ADDED	CONC. MS	% REC.	CONC. MSD	% REC.	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY	COMMENTS
VOA 5813 SMO # E3796	1,1-Dichloroethylene	ND	12.5	13	104	12	96	8	<15%	51-150	5807, 5812-13
	Trichloroethylene	ND	12.5	9	72*	8.2	66	9	<15%	74-130	
	Chlorobenzene	ND	12.5	14	112	12	96	15	<15%	67-130	
5822 MS #E3796 5823R MSD #E3796	Toluene	ND	12.5	14	112	12	96	15	<15%	58-130	
	Benzene	ND	12.5	13	104	12	96	8	<15%	56-130	
B/N 5802 SMO # E3785	1,2,4-Trichlorobenzene	120,000	2000	27,000	—	140,000	—	—	<50%	38-110	5807-5815 See QA Notice
	Acenaphthene	ND	2000	—	—	—	—	—	<50%	57-120	
	2,4-Dinitrotoluene	ND	2000	—	—	—	—	—	<50%	43-110	
5824 5825 MS #E3785 MSD #E3785	Di-N-Butylphthalate	ND	2000	—	—	—	—	—	<50%	13-110	
	Pyrene	ND	2000	—	—	—	—	—	<50%	25-140	
	N-Nitrosodi-N-Propylamine	ND	8000	—	—	—	—	—	<50%	34-110	
	1,4-Dichlorobenzene	ND	2000	LT	—	LT	—	—	<50%	33-110	
ACID 5802 SMO # E3785	Pentachlorophenol	ND	2000	—	—	—	—	—	<40%	19-120	5807-5815 See QA Notice
	Phenol	ND	2000	—	—	—	—	—	<40%	23-80	
	2-Chlorophenol	ND	2000	—	—	—	—	—	<40%	33-110	
5824 5825 MS #E3785 MSD #E3785	P-Chloro-M-Cresol	ND	2000	—	—	—	—	—	<40%	32-110	
	4-Nitrophenol	ND	12000	—	—	—	—	—	<40%	15-90	
PEST 5802 SMO # E3785	Lindane	—	80	—	—	—	—	—	<40%	87-110	SEE QA NOTICE 5807-5815
	Heptachlor	—	80	—	—	—	—	—	<40%	43-120	
	Aldrin	—	80	—	—	—	—	—	<40%	45-110	
5826R MS #E3785 5827R MSD #E3785	Dieldrin	—	80	—	—	—	—	—	<40%	56-120	
	Endrin	—	80	—	—	—	—	—	<40%	89-110	
	p,p-DDT	—	80	—	—	—	—	—	<40%	82-100	

*Asterisked values are outside QC limits.

RPD: VOAs 0 out of 5; outside QC limits
B/N — out of —; outside QC limits
ACID — out of —; outside QC limits
PEST — out of —; outside QC limits

RECOVERY: VOAs 1 out of 10; outside QC limits
B/N — out of —; outside QC limits
ACID — out of —; outside QC limits
PEST — out of —; outside QC limits

*Date Limits Set 12/82
Revision Due 6/83

MATRIX SPIKE DUPLICATE/RECOVERY

CASE NO. 1887
LOW LEVEL XX
WATER
QC REPORT NO. 123-52

CONTRACTOR MEAD COMPUCHEM
MED. LEVEL
SOIL/SED. XX

CONTRACT NO. 68-01-6762
HIGH LEVEL
OTHER (Specify)
UNITS (Circle) (ug/kg) ug/l

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FRACTION	COMPOUND	SMO # CONC	CONC. SPIKE ADDED	CONC. MS	% REC.	CONC. MSD	% REC.	RPD	QC LIMITS* RPD	QC LIMITS* RECOVERY	COMMENTS
VOA 5607 SMO # E3776	1,1-Dichloroethylene	ND	12.5	18	144	17	136	6	<15%	51-150	5800-01 5804-05
	Trichloroethylene	ND	12.5	13	104	12	96	8	<15%	74-130	
	Chlorobenzene	ND	12.5	14	112	12	96	15	<15%	67-130	
MS #E3776 MSD #E3776 (5611 5612)	Toluene	ND	12.5	12	96	10	80	18*	<15%	58-130	
	Benzene	ND	12.5	12	96	10	80	18*	<15%	56-130	
B/N 5537 SMO # E3776	1,2,4-Trichlorobenzene	ND	2000	1900	95	2100	105	10	<50%	38-110	5800-06
	Acenaphthene	ND	2000	1800	90	2200	110	20	<50%	57-120	
	2,4-Dinitrotoluene	ND	2000	430	24*	NF	- *	- *	<50%	43-110	
MS #E3776 MSD #E3776 (5613 5614)	Di-N-Butylphthalate	ND	2000	1200	60	1500	75	22	<50%	13-110	
	Pyrene	ND	2000	2600	130	3300	165 *	24	<50%	25-140	
	N-Nitrosodi-N-Propylamine	ND	8000	11000	138*	11000	138*	0	<50%	34-110	
	1,4-Dichlorobenzene	760	2000	2000	62	2700	77	22	<50%	33-110	
ACID 5607 SMO # E3776	Pentachlorophenol	11000	2000	17000	300*	7900	- *	- *	<40%	19-120	5800-06
	Phenol	103,000 a	2000	49000 a	- *	52000	- *	- *	<40%	23-80	
	2-Chlorophenol	290	2000	1900	76	1700	75	22	<40%	33-110	
MS #E3776 MSD #E3776	P-Chloro-M-Cresol	ND	2000	2200	110	2000	100	10	<40%	32-110	
	4-Nitrophenol	ND	12000	8000	67	BDL	- *	- *	<40%	15-90	
PEST 5605 SMO # E3774	Lindane	ND	80	NF	- *	NF	- *	- *	<40%	87-110	5800-06
	Heptachlor	ND	80	110.3	138*	193	241*	54*	<40%	43-120	
	Aldrin	ND	80	126	158*	NF	- *	- *	<40%	45-110	
MS #E3774 (5615) MSD #E3774 (5616)	Dieldrin	ND	80	11.6	15*	NF	- *	- *	<40%	56-120	
	Endrin	ND	80	110.7	138*	NF	- *	- *	<40%	89-110	
	p,p-DDT	ND	80	NF	- *	NF	- *	- *	<40%	82-100	

*Asterisked values are outside QC limits.

RPD: VOAs 2 out of 6 ; outside QC limits
B/N 1 out of 7 ; outside QC limits
ACID 3 out of 5 ; outside QC limits
PEST 6 out of 6 ; outside QC limits

RECOVERY: VOAs 0 out of 10 ; outside QC limits
B/N 5 out of 14 ; outside QC limits
ACID 5 out of 10 ; outside QC limits
PEST 12 out of 12 ; outside QC limits

*Date Limits Set 12/82
Revision Due 6/83

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DH830510B15
Date: 8-10-83 Shift: B Analyst: 327

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	57%
68	less than 2 percent of mass 69	<.1%
70	less than 2 percent of mass 69	<.1%
127	40 - 60 percent of mass 198	47%
197	less than 1 percent of mass 198	0.3%
198	base peak, 100 percent	100%
199	5 - 9 per cent of mass 198	6.7%
275	10 - 30 percent of mass 198	22%
365	greater than 1 percent of mass 198	2.0%
441	present but less mass than 443	13%
442	greater than 40 percent of mass 198	92%
443	17 - 23 percent of mass 442	17% (18.5 %)*

DFTPP and BFB Performance Results:

☐ The DFTPP performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ .15

Benzidine Detectable ☑ Yes ☐ No
Area (Counts) 40 ng D10 Anthracene = 89308
Di-N-Butyl Phthalate Saturated ☐ Yes ☑ No

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* Figure in ( ) is % of mass 442

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Case 1887

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DH830811B14
Date: 8-11-83 Shift: B Analyst: Goz

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	56%
68	less than 2 percent of mass 69	0%
70	less than 2 percent of mass 69	0%
127	40 - 60 percent of mass 198	41%
197	less than 1 percent of mass 198	0%
198	base peak, 100 percent	100%
199	5 - 9 per cent of mass 198	8%
275	10 - 30 percent of mass 198	21%
365	greater than 1 percent of mass 198	2%
441	present but less mass than 443	9%
442	greater than 40 percent of mass 198	60%
443	17 - 23 percent of mass 442	12% (20%.)*

DFTPP and BFB Performance Results:

☐ The DFTPP performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ [.10]

Benzidine Detectable [X] Yes [ ] No
Area (Counts) 40 ng D10 Anthracene = 28490
Di-N-Butyl Phthalate Saturated [ ] Yes [X] No

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* Figure in ( ) is % of mass 442

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DH830911 B15
Date: 8-11-83 Shift: B Analyst: 602

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	41%
68	less than 2 percent of mass 69	0%
70	less than 2 percent of mass 69	0%
127	40 - 60 percent of mass 198	45%
197	less than 1 percent of mass 198	0%
198	base peak, 100 percent	100%
199	5 - 9 per cent of mass 198	7%
275	10 - 30 percent of mass 198	22%
365	greater than 1 percent of mass 198	1%
441	present but less mass than 443	12%
442	greater than 40 percent of mass 198	87%
443	17 - 23 percent of mass 442	15% (17%)*

DFTPP and BFB Performance Results:

☐ The DFTPP performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ .24

Benzidine Detectable [X] Yes [ ] No
Area (Counts) 40 ng D10 Anthracene = 56709
Di-N-Butyl Phthalate Saturated [ ] Yes [X] No

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* Figure in ( ) is % of mass 442

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Case 1887

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DW830811B16
Date: 8-11-83 Shift: B Analyst: 602

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	59%
68	less than 2 percent of mass 69	0%
70	less than 2 percent of mass 69	0%
127	40 - 60 percent of mass 198	55%
197	less than 1 percent of mass 198	0%
198	base peak, 100 percent	100%
199	5 - 9 per cent of mass 198	7%
275	10 - 30 percent of mass 198	29%
365	greater than 1 percent of mass 198	4%
441	present but less mass than 443	14%
442	greater than 40 percent of mass 198	99%
443	17 - 23 percent of mass 442	19% (19%)*

DFTPP and BFB Performance Results:

☐ The DFTPP performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ .06

Benzidine Detectable ☒ Yes ☐ No
Area (Counts) 40 ng D10 Anthracene = 17805
Di-N-Butyl Phthalate Saturated ☐ Yes ☒ No

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* Figure in ( ) is % of mass 442

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Case 1887

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DH830812C16
Date: 8-12-83 Shift: C Analyst: 763

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	58.6
68	less than 2 percent of mass 69	—
70	less than 2 percent of mass 69	—
127	40 - 60 percent of mass 198	48.3
197	less than 1 percent of mass 198	—
198	base peak, 100 percent	100.0
199	5 - 9 per cent of mass 198	—
275	10 - 30 percent of mass 198	23.6
365	greater than 1 percent of mass 198	3.2
441	present but less mass than 443	10.8
442	greater than 40 percent of mass 198	78.4
443	17 - 23 percent of mass 442	13.9 (18%)*

DFTPP and BFB Performance Results:

☐ The DFTPP performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ .14

Benzidine Detectable ☑ Yes ☐ No
Area (Counts) 40 ng D10 Anthracene = 96,116
Di-N-Butyl Phthalate Saturated ☐ Yes ☐ No

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* Figure in ( ) is % of mass 442

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DH830812 B141
Date: 8-12-83 Shift: B Analyst: 727

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	60%
68	less than 2 percent of mass 69	1.4%
70	less than 2 percent of mass 69	<1%
127	40 - 60 percent of mass 198	43%.
197	less than 1 percent of mass 198	<.1%
198	base peak, 100 percent	100%
199	5 - 9 per cent of mass 198	7.5%
275	10 - 30 percent of mass 198	19%
365	greater than 1 percent of mass 198	1.6%
441	present but less mass than 443	10%
442	greater than 40 percent of mass 198	66%
443	17 - 23 percent of mass 442	11% (17%)*

DFTPP and BFB Performance Results:

☐ The DFTPP performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area } 188} \times \frac{\text{Area } 266}{50} =$ .15

Benzidine Detectable ☑ Yes ☐ No
Area (Counts) 40 ng D10 Anthracene =
Di-N-Butyl Phthalate Saturated ☐ Yes ☑ No

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* Figure in ( ) is % of mass 442

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Case 1887

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

Date: 8/14/83 DFTPP File Name: DH830814A14 Shift: A Analyst: 586

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	54.19
68	less than 2 percent of mass 69	—
70	less than 2 percent of mass 69	—
127	40 - 60 percent of mass 198	47.40
197	less than 1 percent of mass 198	0.32
198	base peak, 100 percent	100.00
199	5 - 9 per cent of mass 198	7.70
275	10 - 30 percent of mass 198	18.42
365	greater than 1 percent of mass 198	1.61
441	present but less mass than 443	7.36
442	greater than 40 percent of mass 198	52.54
443	17 - 23 percent of mass 442	10.30 (19.60.)*

DFTPP and BFB Performance Results:

☑ The DFTPP performance results were reviewed and found to be within the specified criteria.

NC 8/14/83
Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ 0.12

Benzidine Detectable ☑ Yes ☐ No

Area (Counts) 40 ng D10 Anthracene = 40208

Di-N-Butyl Phthalate Saturated ☐ Yes ☑ No

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* Figure in ( ) is % of mass 442

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Case 1887

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DH830818C14
Date: ____ Shift: ____ Analyst: ____

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	
68	less than 2 percent of mass 69	55
70	less than 2 percent of mass 69	L2
127	40 - 60 percent of mass 198	41
197	less than 1 percent of mass 198	L1
198	base peak, 100 percent	100
199	5 - 9 per cent of mass 198	7
275	10 - 30 percent of mass 198	17
365	greater than 1 percent of mass 198	71
441	present but less mass than 443	L443
442	greater than 40 percent of mass 198	749
443	17 - 23 percent of mass 442	14.97 (18)*

DFTPP and BFB Performance Results:

☒ The DFTPP performance results were reviewed and found to be within the specified criteria.

JR 8/16
Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ 0.58

Benzidine Detectable ☒ Yes ☐ No
Area (Counts) 40 ng D10 Anthracene = 57403
Di-N-Butyl Phthalate Saturated ☐ Yes ☒ No

* Figure in ( ) is % of mass 442

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FORM VII

Revision Date 7/83 JR

Case 1887

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DHB30819A14

Date: 8/19/83 Shift: A Analyst: 659

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	56.09
68	less than 2 percent of mass 69	0.2
70	less than 2 percent of mass 69	—
127	40 - 60 percent of mass 198	47.47
197	less than 1 percent of mass 198	0.93
198	base peak, 100 percent	100.00
199	5 - 9 per cent of mass 198	7.02
275	10 - 30 percent of mass 198	21.10
365	greater than 1 percent of mass 198	2.45
441	present but less mass than 443	11.14
442	greater than 40 percent of mass 198	72.36
443	17 - 23 percent of mass 442	16.38 (23)*

DFTPP and BFB Performance Results:

☑ The DFTPP performance results were reviewed and found to be within the specified criteria.

BP (Initials) 8/19/83 (Date)

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ 0.1

Benzidine Detectable ☑ Yes ☐ No

Area (Counts) 40 ng D10 Anthracene = 39157

Di-N-Butyl Phthalate Saturated ☐ Yes ☑ No

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* Figure in ( ) is % of mass 442

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Revision Date 7/83 JR

Case 1887

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DH830823C07
Date: 8/23 Shift: C Analyst: CLC

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	55
68	less than 2 percent of mass 69	<2
70	less than 2 percent of mass 69	<2
127	40 - 60 percent of mass 198	54
197	less than 1 percent of mass 198	<1
198	base peak, 100 percent	100
199	5 - 9 per cent of mass 198	7
275	10 - 30 percent of mass 198	22
365	greater than 1 percent of mass 198	71
441	present but less mass than 443	<443
442	greater than 40 percent of mass 198	740
443	17 - 23 percent of mass 442	13.75 (20)*

DFTPP and BFB Performance Results:

☒ The DFTPP performance results were reviewed and found to be within the specified criteria.

CLC 8/23
Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ 0.96

Benzidine Detectable ☒ Yes ☐ No

Area (Counts) 40 ng D10 Anthracene = 44217

Di-N-Butyl Phthalate Saturated ☐ Yes ☒ No

RECEIVED OCT 25 1983

* Figure in ( ) is % of mass 442

FORM VII

Revision Date 7/83 JI

Case 1887

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. _____ CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL _____ MED. LEVEL _____ HIGH LEVEL _____
WATER _____ SOIL/SED. _____ OTHER (Specify) _____

DFTPP File Name: DH830812B16
Date: 8-12-83 Shift: B Analyst: 727

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	59%
68	less than 2 percent of mass 69	< .1%
70	less than 2 percent of mass 69	< .1%
127	40 - 60 percent of mass 198	55%
197	less than 1 percent of mass 198	< .1%
198	base peak, 100 percent	100%
199	5 - 9 per cent of mass 198	7.7%
275	10 - 30 percent of mass 198	24%
365	greater than 1 percent of mass 198	3.3%
441	present but less mass than 443	11%
442	greater than 40 percent of mass 198	68%
443	17 - 23 percent of mass 442	13% (19%-)*

DFTPP and BFB Performance Results:

☐ The DFTPP performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ .08

Benzidine Detectable ☑ Yes ☐ No
Area (Counts) 40 ng D10 Anthracene = 33242
Di-N-Butyl Phthalate Saturated ☐ Yes ☑ No

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* Figure in ( ) is % of mass 442

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Revision Date 7/83 JR

Case 1887

SEMI-VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

DFTPP File Name: DH830823A16
Date: 8/23/83 Shift: A Analyst: 531

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	HO
68	less than 2 percent of mass 69	—
70	less than 2 percent of mass 69	—
127	40 - 60 percent of mass 198	57.
197	less than 1 percent of mass 198	—
198	base peak, 100 percent	100
199	5 - 9 per cent of mass 198	6
275	10 - 30 percent of mass 198	18
365	greater than 1 percent of mass 198	1.0
441	present but less mass than 443	7
442	greater than 40 percent of mass 198	54.8 C
443	17 - 23 percent of mass 442	9.57. (17.44)*

DFTPP and BFB Performance Results:

☑ The DFTPP performance results were reviewed and found to be within the specified criteria.

AC (Initials) 8/23/83 (Date)

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ 0.09

Benzidine Detectable ☒ Yes ☐ No
Area (Counts) 40 ng D10 Anthracene = 39728.
Di-N-Butyl Phthalate Saturated ☐ Yes ☒ No

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* Figure in ( ) is % of mass 442

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Case 1887

CASE NO. _____ CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762

LOW LEVEL _____ MED. LEVEL _____ HIGH LEVEL _____

WATER _____ SOIL/SED. _____ OTHER (Specify) _____

DFTPP File Name: PH830825Z16

Date: 8-25-83 Shift: C Analyst: BLT

Mass	DFTPP Ion Abundance Criteria	% Relative Abundance
51	30 - 60 percent of mass 198	57
68	less than 2 percent of mass 69	0
70	less than 2 percent of mass 69	0
127	40 - 60 percent of mass 198	56
197	less than 1 percent of mass 198	0
198	base peak, 100 percent	100*
199	5 - 9 per cent of mass 198	6.7
275	10 - 30 percent of mass 198	18
365	greater than 1 percent of mass 198	2
441	present but less mass than 443	5.5
442	greater than 40 percent of mass 198	43
443	17 - 23 percent of mass 442	7.4 (17)*

DFTPP and BFB Performance Results:

☐ The DFTPP performance results were reviewed and found to be within the specified criteria.

Initials _____ Date _____

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials _____ Date _____

Comments:

Pentachlorophenol Response Factor = $\frac{40}{\text{Area 188}} \times \frac{\text{Area 266}}{50} =$ ☐

Benzidine Detectable ☐ Yes ☐ No

Area (Counts) 40 ng D10 Anthracene =

Di-N-Butyl Phthalate Saturated ☐ Yes ☐ No

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* Figure in ( ) is % of mass 442

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Case 1887

CA#5801-E3783
5801-E3784

VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ✓ MED. LEVEL ✓ HIGH LEVEL
WATER SOIL/SED. ✓ OTHER (Specify)

BFB File Name: BF830727C05
Date: 7/27/83 Shift: C Analyst: JH

Mass	BFB Ion Abundance Criteria	% Relative Abundance
50	15 - 40 percent of mass 95	24
75	30 - 60 percent of mass 95	47
95	base peak, 100 percent	100
96	5 - 9 percent of mass 95	8.9
173	less than 2 percent of mass 174	0
174	greater than 50 percent of mass 95	77
175	5 - 9 percent of mass 174	5.0 (6.5)[1]
176	greater than 95 percent, but less than 101 percent of 174	77
177	5 - 9 percent of mass 176	5.2 (6.8)[2]

BFB Performance Results:

☐ The BFB performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

[1] Value in ( ) is % of mass 174

[2] Value in ( ) is % of mass 176

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Revision Date 7/83 JRT

Case 1887

CC# 5805-E3788
5807-E3790
5810-E3793

VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762 5808R-E3791
LOW LEVEL ✓ MED. LEVEL ✓ HIGH LEVEL
WATER SOIL/SED. ✓ OTHER (Specify)

Date: 7/28/83 BFB File Name: BF830728C05 Shift: C Analyst: 714

Mass	BFB Ion Abundance Criteria	% Relative Abundance	
50	15 - 40 percent of mass 95	26	
75	30 - 60 percent of mass 95	48	
95	base peak, 100 percent	100	
96	5 - 9 percent of mass 95	8.6	
173	less than 2 percent of mass 174	0	
174	greater than 50 percent of mass 95	84	
175	5 - 9 percent of mass 174	6.5	(7.7)[1]
176	greater than 95 percent, but less than 101 percent of 174	84	
177	5 - 9 percent of mass 176	5.7	(6.8)[2]

BFB Performance Results:

☐ The BFB performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

[1] Value in ( ) is % of mass 174

[2] Value in ( ) is % of mass 176

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Case 1887

VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL ____ MED. LEVEL ____ HIGH LEVEL ____
WATER ____ SOIL/SED. ____ OTHER (Specify) ____

Date: 7/28/83 BFB File Name: BF830728A05 Shift: A Analyst: 633

Mass	BFB Ion Abundance Criteria	% Relative Abundance
50	15 - 40 percent of mass 95	23
75	30 - 60 percent of mass 95	49
95	base peak, 100 percent	100
96	5 - 9 percent of mass 95	8 4
173	less than 2 percent of mass 174	<28
174	greater than 50 percent of mass 95	82
175	5 - 9 percent of mass 174	5.9 (7.2)[1]
176	greater than 95 percent, but less than 101 percent of 174	81
177	5 - 9 percent of mass 176	5.8 (7.2)[2]

BFB Performance Results:

☐ The BFB performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

[1] Value in ( ) is % of mass 174

[2] Value in ( ) is % of mass 176

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Case 1887

VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. _____ CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL _____ MED. LEVEL _____ HIGH LEVEL _____
WATER _____ SOIL/SED. _____ OTHER (Specify) _____

BFB File Name: BF830829A11
Date: 8/29/83 Shift: A Analyst: 633

Mass	BFB Ion Abundance Criteria	% Relative Abundance
50	15 - 40 percent of mass 95	22
75	30 - 60 percent of mass 95	41
95	base peak, 100 percent	100
96	5 - 9 percent of mass 95	7.4
173	less than 2 percent of mass 174	42%
174	greater than 50 percent of mass 95	66
175	5 - 9 percent of mass 174	4.5 (6.8)[1]
176	greater than 95 percent, but less than 101 percent of 174	65
177	5 - 9 percent of mass 176	5.0 (7.7)[2]

BFB Performance Results:

☐ The BFB performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

[1] Value in ( ) is % of mass 174

[2] Value in ( ) is % of mass 176

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Case 1887

CASE NO. 1887 | CONTRACTOR Mead CompuChem | CONTRACT NO. 68-01-6762
LOW LEVEL | MED. LEVEL | HIGH LEVEL
WATER | SOIL/SED. | OTHER (Specify)

BFB File Name: BF830802A11

Date: 8/2/83 Shift: A Analyst: 633

Mass	BFB Ion Abundance Criteria	% Relative Abundance
50	15 - 40 percent of mass 95	25
75	30 - 60 percent of mass 95	45
95	base peak, 100 percent	100
96	5 - 9 percent of mass 95	8.3
173	less than 2 percent of mass 174	<2%
174	greater than 50 percent of mass 95	73
175	5 - 9 percent of mass 194	5.4 (7.4)[1]
176	greater than 95 percent, but less than 101 percent of 174	72
177	5 - 9 percent of mass 176	5.0 (6.9)[2]

BFB Performance Results:

☐ The BFB performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

[1] Value in ( ) is % of mass 174

[2] Value in ( ) is % of mass 176

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Revision Date 7/83 JRT

Case 1887

VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. _____ CONTRACTOR Mead CompuChem CONTRACT NO. 68-01-6762
LOW LEVEL _____ MED. LEVEL _____ HIGH LEVEL _____
WATER _____ SOIL/SED. _____ OTHER (Specify) _____

Date: 8/2/83 BFB File Name: BF830802811 Shift: B Analyst: 8/2/83

Mass	BFB Ion Abundance Criteria	% Relative Abundance
50	15 - 40 percent of mass 95	24.50
75	30 - 60 percent of mass 95	45.43
95	base peak, 100 percent	100.00
96	5 - 9 percent of mass 95	8.79
173	less than 2 percent of mass 174	-0-
174	greater than 50 percent of mass 95	75.50
175	5 - 9 percent of mass 174	5.17 (6.8)[1]
176	greater than 95 percent, but less than 101 percent of 174	73.24
177	5 - 9 percent of mass 176	4.62 (6.3)[2]

BFB Performance Results:

☐ The BFB performance results were reviewed and found to be within the specified criteria.

Initials Date

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials Date

Comments:

[1] Value in ( ) is % of mass 174

[2] Value in ( ) is % of mass 176

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Case 1887

VOLATILE INSTRUMENT TUNE AND PERFORMANCE

CASE NO. 1887 | CONTRACTOR Mead CompuChem | CONTRACT NO. 68-01-6762
LOW LEVEL ✓ | MED. LEVEL | HIGH LEVEL
WATER ✓ | SOIL/SED. | OTHER (Specify)

Date: 8/3/87 | BFB File Name: BF8308031 | Shift: C | Analyst: JLY

Mass	BFB Ion Abundance Criteria	% Relative Abundance
50	15 - 40 percent of mass 95	26
75	30 - 60 percent of mass 95	48
95	base peak, 100 percent	100
96	5 - 9 percent of mass 95	8.5
173	less than 2 percent of mass 174	0
174	greater than 50 percent of mass 95	72
175	5 - 9 percent of mass 174	5.7 (8.0)[1]
176	greater than 95 percent, but less than 101 percent of 174	.72
177	5 - 9 percent of mass 176	5.06 (7.0)[2]

BFB Performance Results:

☐ The BFB performance results were reviewed and found to be within the specified criteria.

Initials _____ Date _____

☐ Deviations

Date/Time/Instrument	File Number	Compound	m/z	Required Abundance	Observed Abundance

Initials _____ Date _____

Comments:

[1] Value in ( ) is % of mass 174

[2] Value in ( ) is % of mass 176

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Case 1887